

Amendments to the Specification:

Please replace the paragraph beginning on page 6, line 16, with the following rewritten paragraph:

According to a particular method for production of a fuel cell, as represented in figures 3 to 10, an electrolytic membrane 4 is deposited on a substrate-8 18 (figure 3) in the form of a perfluorinated polymer layer of Nafion® type. A metallic layer 9, preferably made of gold, chromium-gold alloy or titanium-gold alloy, is then deposited on the front face 4a of the electrolytic membrane 4 by evaporation (figure 4).

Please replace the paragraph beginning on page 7, line 11, with the following rewritten paragraph:

The rest of the fuel cell is then formed by removing the substrate-8 18 so as to free the rear face of the electrolytic membrane. The assembly formed by the electrolytic membrane 4, the first collector 13 and the first electrode 14 is then turned, after it has been covered by a protective layer if this is the case. Then, as illustrated in figure 10, a second current collector 15 and a second electrode 16 are formed on the rear face 4b of the electrolytic membrane 4, in identical manner to the first current collector 13 and the first electrode 14. The catalytic element of the second electrode 16 then fills the transverse passages formed in the second current collector 15 so as to be in direct contact with the rear face 4b of the electrolytic membrane 4, and it covers the second current collector 15.